

NCNR 50 Year Symposium

December 7-8, 2017

NIST Green Auditorium

December 7, 2017	
8:30 - 9:00 AM	Registration
9:00 - 9:10 AM	Robert Dimeo, Director, NCNR <i>Welcoming Remarks</i>
9:10 – 9:20 AM	Unconfirmed
9:20 – 9:50 AM	Dan Neumann, NCNR <i>Neutrons at NIST</i>
9:50 – 10:10 AM	Tom Newton, NCNR <i>The Future of the NCNR Neutron Source: An Exploration of Options</i>
10:10 – 10:30 AM	James Rhyne, Department of Energy <i>The NCNR Years: A Career-Launching Opportunity</i>
10:30 – 11:00 AM	Break
11:00 – 11:20 AM	Andreas Magerl, Universität Erlangen-Nurnberg <i>Learning Neutron Scattering at NIST</i>
11:20 – 11:40 AM	Collin Broholm, Johns Hopkins University <i>Exploring Quantum Materials Through High Efficiency Cold Neutron Instrumentation at the NCNR</i>
11:40 – 12:00 PM	Lilo Pozzo, University of Washington <i>Tickling Soft Matter: Manipulating Materials with External Fields</i>
12:00 – 12:20 PM	Mike Hore, Case Western Reserve University <i>Small-Angle Neutron Scattering from Cyclic and Mechanically-Interlocked Polymers</i>
12:20 – 1:30 PM	Lunch
1:30 – 1:50 PM	Megan Robertson, University of Houston <i>SANS Investigations of the Thermodynamics of Polymer Mixtures</i>
1:50 – 2:10 PM	Mas Subramanian, Oregon State University <i>The Role of Neutrons in Colorful Materials World: Heat Reflecting Blue Pigments and Beyond</i>
2:10 – 2:30 PM	Mathias Loesche, Carnegie Mellon University <i>Neutron Scattering in Structural Biology: The Best is Yet to Come!</i>
2:30 – 2:50 PM	Carlos Lopez-Barron, ExxonMobil <i>Neutron Science at ExxonMobil</i>
2:50 – 3:10 PM	Frank Bates, University of Minnesota <i>Neutrons and Polymers: A Marriage made in Gaithersburg</i>
3:10 – 3:40 PM	Break
3:40 – 4:00 PM	Kai Liu, University of California, Davis <i>Polarized Neutron Reflectometry Investigations of Artificially Structured Nanomagnets</i>

4:00 – 4:20 PM	Ron Jones, nSoft <i>nSoft: How We Learned to Love, and Advance, Industrial Research</i>
4:20 – 4:40 PM	Dick Lindstrom, NIST <i>Radioanalytical Chemistry @ NBSR</i>
4:40 – 5:00 PM	Ron Bishop, Smithsonian <i>The NIST-Smithsonian Partnership: Four Decades of Archaeological Neutron Activation</i>
5:00 – 5:20 PM	Leslie Ruppert, U.S. Geological Survey <i>Using Neutron Scattering to Answer a Fundamental Question in Petroleum Geology - How Do Fluids Move Through Tight Rocks?</i>
5:20 – 6:30 PM	Break
6:30 PM 7:15 PM	Reception Dinner Gaithersburg Marriott, Washingtonian Center

December 8, 2017

9:00 - 9:20 AM	Rob Briber, University of Maryland <i>NCNR/UMD Research Interactions - Soft Matter and Beyond</i>
9:20 - 9:40 AM	Norm Wagner, University of Delaware <i>Making Complex Fluids Less Complex to Understand Using Rheo-SANS</i>
9:40 – 10:00 AM	Tom Trabold, Rochester Institute of Technology <i>“Neutrons Don’t Lie!”: The Transformational Role of Neutron Imaging in Fuel Cell Science and Technology</i>
10:00 – 10:20 AM	Fred Wietfeldt, Tulane University <i>Neutron Decay Experiments at the NCNR</i>
10:20 – 10:50 AM	Break
10:50 – 11:10 AM	Matt Helgeson, University of California, Santa Barbara <i>Reflections on Pushing the Limits of SANS for Soft Matter - Past, Present and Future</i>
11:10 – 11:30 AM	Jeff Long, University of California, Berkeley <i>Neutron Diffraction Studies of Gas Adsorption in Metal-Organic Frameworks</i>
11:30 – 11:50 AM	Stephen Wilson, University of California Santa Barbara <i>Catalyzing Discovery in Quantum Magnets: The Power of Partnering with the NCNR and its Scientists</i>
11:50 – 12:10 PM	Young Lee, Stanford University <i>A Journey into the Science of Quantum Magnets at the NCNR</i>
12:10 – 12:40 PM	Mike Rowe, NCNR <i>Final Remarks</i>
	NCNR Facility Tour (Optional)